

**Manufacturer/Supplier:**

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**Product name:** Anti-Human CD274/PD-L1 Monoclonal  
Antibody(PE/Cyanine5 Conjugated)

**Catalog:** DL21669F

**Synonyms:** B7-H1, PD-L1, Programmed cell death ligand 1, B7  
homolog 1, B7-H, B7H1, PDL1, PDCD1L1,  
PDCD1LG1

**Background:** CD274, also known as PD-L1 and B7-H1, is type I  
transmembrane glycoprotein that serves as a ligand  
for CD279 (PD-1). This interaction is believed to  
regulate the balance between the stimulatory and  
inhibitory signals needed for responses to microbes  
and maintenance of self- tolerance. CD274 is  
involved in the costimulation of T cell proliferation  
and IL-10 and IFN- $\gamma$  production in an  
IL-2-dependent and CD279-independent manner.

Conflicting data has shown that CD274 can inhibit T cell proliferation and cytokine production, and alternatively, enhance T cell activation. Other studies suggest that CD274 may signal bidirectionally, raising interesting implications for its expression in a wide variety of cell types, including T and B cells, antigen- presenting cells, and nonhematopoietic cells.

**Form:** Liquid

**Isotype:** Mouse IgG2b,  $\kappa$

**Size:**

**Host:** Mouse

20Tests/100Tests/100Tests $\times$ 2

**Reactivity:** Human

**Application:** FCM

**Concentration:** 5  $\mu$ L

**Conjugation:** PE/Cyanine5

**SwissProt:** Q9NZQ7

**Buffer:** Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer and 1% protein protectant.

### Recommended Use:

Each lot of this antibody is quality control tested by flow cytometric analysis. The amount of the reagent is suggested to be used 5  $\mu$ L of antibody per test (million cells in 100  $\mu$ L staining volume or per

100  $\mu$ L of whole blood). Please check your vial before the experiment. Since applications vary, the appropriate dilutions must be determined for individual use.

**Storage:**

Keep as concentrated solution.

Store at 2~8°C and protected from prolonged exposure to light. Do not freeze.

This product is guaranteed up to one year from purchase.